

AMENDMENTS TO THE CLAIMS

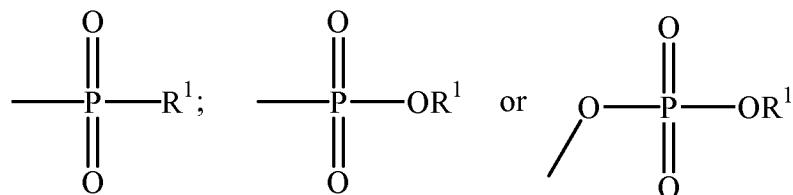
This listing of claims will replace all prior versions, and listings, of claims in the application. In amendments to the claims, additions are represented by underlining and deletions are represented by ~~striketrough~~ or, in cases of five characters or fewer, by **[[double brackets]]**.

1. (Original) A method for inhibiting cancer cell proliferation comprising administering a NF- κ B inhibitor to a subject, wherein the NF- κ B inhibitor causes an NF- κ B inhibition, wherein the subject has cancer cells which are proliferating, wherein the cancer cells are not myeloma cells.
2. (Withdrawn) A method of promoting cancer cell apoptosis comprising administering a NF- κ B inhibitor to a subject, wherein the NF- κ B inhibitor causes an NF- κ B inhibition, wherein the subject has cancer cells, wherein the cancer cells are not myeloma.
3. (Withdrawn) A method of inhibiting readhesion of cancer cells to a surface comprising administering a NF- κ B inhibitor to a subject, wherein the NF- κ B inhibitor causes an NF- κ B inhibition, wherein the subject has cancer cells.
4. (Withdrawn) A method of inhibiting metastasis of cancer cells comprising administering a NF- κ B inhibitor to a subject, wherein the NF- κ B inhibitor causes an NF- κ B inhibition, wherein the subject has cancer cells.
5. (Withdrawn) The method of claim 4, wherein the NF- κ B inhibitor inhibits intraabdominal metastasis.
6. (Withdrawn) The method of claim 5, wherein the NF- κ B inhibitor inhibits hepatic, parietal or peritoneal metastasis.

7. (Withdrawn) A method of inhibiting tumorigenesis comprising administering a NF- κ B inhibitor to a subject, wherein the NF- κ B inhibitor causes an NF- κ B inhibition, wherein the subject has cancer cells.
8. (Previously Presented) The method of claim 1, wherein the cancer is an abdominal cancer, hepatic cancer, peritoneal cancer, parietal cancer, rectal cancer, stomach cancer, or colon cancer.
9. (Previously Presented) The method of claim 1, wherein the cancer cells utilize NF- κ B for mitogenesis.
10. (Previously Presented) The method of claim 1, wherein the cancer cells utilize NF- κ B for readhesion.
11. (Previously Presented) The method of claim 1, wherein the cancer cell comprises an APC mutation.
12. (Previously Presented) The method of claim 1, wherein the cancer cell does not contain an activating mutation on β -catenin.
13. (Previously Presented) The method of claim 1, wherein the cancer cell expresses the COX2 gene.
14. (Previously Presented) The method of claim 13, wherein the cancer cell overexpresses the COX2 gene.
15. (Previously Presented) The method of claim 1, wherein the cancer cell does not express the COX2 gene.
16. (Previously Presented) The method of claim 1, wherein the cancer cell is related to a cancer cell line.
17. (Previously Presented) The method of claim 16, wherein the cancer cell line is a DLD-1 cell line or a HT-29 cell line.

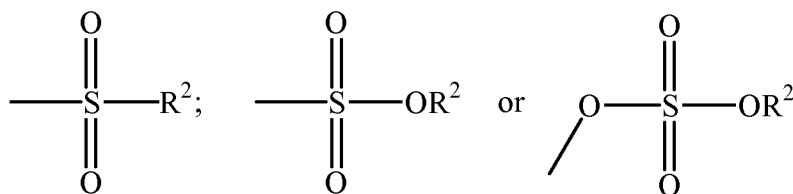
18. (Previously Presented) The method of claim 1, wherein the cancer cells are colon cancer cells.
19. (Previously Presented) The method of claim 1, wherein the cancer cells are rectal cancer cells.
20. (Previously Presented) The method of claim 1, wherein the cancer cells are not adenocarcinoma cells.
21. (Original) The method of claim 1, wherein inhibiting cancer cell proliferation is independent of TNF α activated apoptosis.
22. (Withdrawn) The method of claim 2, wherein promoting cancer cell apoptosis is independent of TNF α activated apoptosis.
23. (Withdrawn) The method of claim 3, wherein inhibiting readhesion of cancer cells to a surface is independent of TNF α activated apoptosis.
24. (Withdrawn) The method of claim 4, wherein inhibiting metastasis of cancer cells is independent of TNF α activated apoptosis.
25. (Withdrawn) The method of claim 7, wherein inhibiting tumorigenesis is independent of TNF α activated apoptosis.
26. (Previously Presented) The method of claim 1, wherein the NF- κ B inhibitor causes a decrease in the expression of anti-apoptotic proteins.
27. (Previously Presented) The method of claim 1, wherein the NF- κ B inhibitor inhibits I κ B phosphorylation.
28. (Previously Presented) The method of claim 1, wherein the NF- κ B inhibitor inhibits TNF α induced NF- κ B activation.
29. (Previously Presented) The method of claim 1, wherein the NF- κ B inhibitor is an olefin.

30. (Previously Presented) The method of claim 1, wherein the NF-κB inhibitor is an olefin having at least one electron-withdrawing group.
31. (Previously Presented) The method of claim 1, wherein the NF-κB inhibitor is an olefin having at least two electron-withdrawing groups.
32. (Currently Amended) The method of ~~claim 30~~ claim 1, wherein the NF-κB inhibitor is an olefin having at least two electron-withdrawing groups and wherein the electron-withdrawing group comprises a cyano group, a sulfo-oxy group, a phospho-oxy group, a carboxyl group, a nitro group, a halogen, a halogenated alkyl group, an unsubstituted aromatic ring, or a substituted aromatic ring having at least one cyano group, sulfo-oxy group, phospho-oxy group, carboxyl group, hydroxyl group, amino group, ether group, halogenated alkyl group, halogen, or nitro group.
33. (Previously Presented) The method of claim 32, wherein the electron-withdrawing group comprises the phospho-oxy group and the phospho-oxy group has the structure



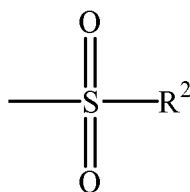
wherein R¹ is hydrogen, alkyl, halogenated alkyl, alkenyl, alkynyl, aralkyl, or substituted or unsubstituted aromatic.

34. (Previously Presented) The method of claim 32, wherein the electron-withdrawing group comprises the sulfo-oxy group and the sulfo-oxy group has the structure



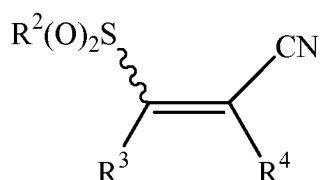
wherein R² is hydrogen, alkyl, halogenated alkyl, alkenyl, alkynyl, aralkyl, or substituted or unsubstituted aromatic.

35. (Previously Amended) The method of claim 1, wherein the NF-κB inhibitor is an olefin having a cyano group and a sulfo-oxy group having the structure



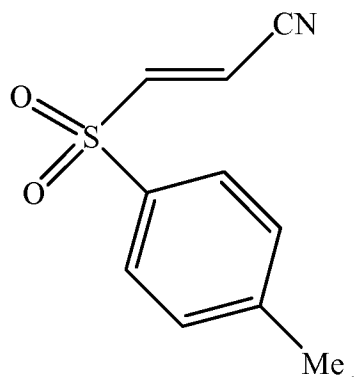
wherein R² is hydrogen, alkyl, halogenated alkyl, alkenyl, alkynyl, aralkyl, or substituted or unsubstituted aromatic.

36. (Previously Presented) The method of claim 1, wherein the NF-κB inhibitor has the structure

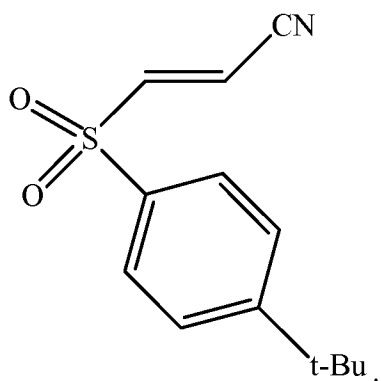


wherein R², R³, and R⁴ are, independently, hydrogen, alkyl, halogenated alkyl, alkenyl, alkynyl, aralkyl, or substituted or unsubstituted aromatic, wherein the compound is the E- or Z-isomer.

37. (Previously Presented) The method of claim 36, wherein R³ and R⁴ are hydrogen.
38. (Previously Presented) The method of claim 36, wherein R² is methyl, ethyl, propyl, isopropyl, butyl, isobutyl, tertiary butyl, substituted or unsubstituted phenyl, or benzyl.
39. (Previously Presented) The method of claim 36, wherein R² is a phenyl group having at least one alkyl group.
40. (Previously Presented) The method of claim 36, wherein the compound is the E-isomer.
41. (Previously Presented) The method of claim 1, wherein the NF-κB inhibitor has the structure



42. (Previously Presented) The method of claim 1, wherein the NF-κB inhibitor has the structure



43-52. (Canceled)

53. (Previously Presented) The method of claim 1, wherein the NF-κB inhibitor directly inhibits NF-κB.
54. (Previously Presented) The method of claim 1, wherein the NF-κB inhibitor indirectly inhibits NF-κB.
55. (Previously Presented) The method of 54, wherein the NF-κB inhibitor inhibits expression of NF-κB.
56. (Previously Presented) The method of 54, wherein the NF-κB inhibitor inhibits translation of NF-κB.

57. (Previously Presented) The method of claim 1, wherein the NF- κ B inhibitor inhibits NF- κ B transport into the nucleus.
58. (Withdrawn) A method of inhibiting cancer cell proliferation in a subject, comprising testing for an adenomatous polyposis coli (APC) gene mutation, and if the mutation is detected, administering an effective amount of an NF- κ B inhibitor to the subject.
59. (Withdrawn) The method of claim 58, wherein the NF- κ B inhibitor comprises BAY 11-7085.
60. (Withdrawn) The method of claim 58, wherein the NF- κ B inhibitor comprises BAY 11-7082.
61. (Withdrawn) A method of inhibiting cancer cell proliferation in a subject comprising testing the subject for COX2 expression, and if there was COX 2 expression, administering an NF- κ B inhibitor to the subject.
62. (Withdrawn) The method of claim 61, wherein the NF- κ B inhibitor comprises BAY 11-7085.
63. (Withdrawn) The method of claim 61, wherein the NF- κ B inhibitor comprises BAY 11-7082.
64. (Original) A method of inhibiting cancer cell proliferation in a subject comprising administering an NF- κ B inhibitor to the subject, wherein the subject has had a tumor resected.
65. (Original) The method of claim 64, wherein the NF- κ B inhibitor is administered prior to the resection.
66. (Previously Presented) The method of claim 64, wherein the NF- κ B inhibitor is administered after the resection.

- 67. (Original) The method of claim 64, wherein the NF- κ B inhibitor is administered within 10 days of the resection.
- 68. (Original) The method of claim 64, wherein the NF- κ B inhibitor is administered within 5 days of the resection.
- 69. (Original) The method of claim 64, wherein the NF- κ B inhibitor is administered within 1 days of the resection.
- 70. (Original) The method of claim 64, wherein the NF- κ B inhibitor is administered within 10 hours of the resection.
- 71. (Original) The method of claim 64, wherein the NF- κ B inhibitor is administered within 1 hour of the resection.
- 72. (Original) The method of claim 64, wherein the NF- κ B inhibitor is administered within 0.5 hours of the resection.